

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Masayuki ORIHASHI et al. Group Art Unit : Not Yet Assigned  
Appl. No. : 10/502,048 (U.S. National Stage of PCT/JP03/02174)  
I.A. Filed : February 27, 2003 Examiner : Not Yet Assigned  
For : COMMUNICATION APPARATUS AND COMMUNICATION  
SYSTEM

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
220 20th Street S.  
Customer Window, Mail Stop Amendment  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, Applicants hereby submit a copy of an International Search Report that was mailed on June 3, 2003 in counterpart International Patent Application No. PCT/JP03/02174, of which the present application is the U.S. National Stage Application, in which the following documents were cited:

An article by C. UCHIYAMA entitled "Ryoshi Rikigaku no Kiso to Ryoshi Ango Ryoshi Tsushin Channel no Shiten" ("Basics of Quantum Mechanics and Quantum Cryptography"), published in Surikagaku ("Mathematical Sciences"); No. 402, December 1, 1996, pp. 53-61;

An article by M. MUROYA et al. entitled "Digital Communication Series Digital Musen Tsushin" ("A Compensation Technique in Digital Radio

Transmission") published in Sangyo Tosho Kabushiki Kaisha ("Digital Radio Communication"), 5<sup>th</sup> Edition, March 10, 1992, pp. 103-127 and pp. 169-170; and

Japanese Laid-Open Patent Publication No. HEI 5-41607, which was published on February 19, 1993.

The category of relevance, pertinent portions, and claims to which each document is relevant, as ascertained by the Japanese Examiner, are set forth in the International Search Report.

Applicants also bring to the Examiner's attention the following document:

U.S. Patent Application No. 10/824,383 to MATSUSAKA, which was filed on April 15, 2004.

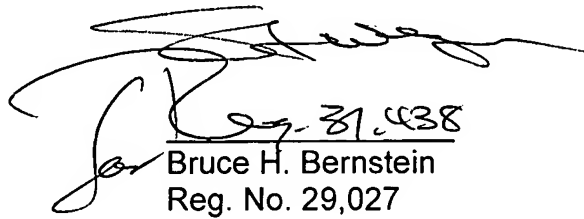
Further to the U.S. Patent and Trademark Office's decision to waive the requirement under 37 C.F.R. §1.98 (a)(2)(iii) if the U.S. patent application was filed after June 30, 2003, a copy of the above-noted patent application is not attached hereto. However, if a copy is needed, the Examiner is respectfully requested to contact the undersigned.

Applicants respectfully request that the Examiner consider the above material and cite the same. Copies of the above-noted journal articles and foreign document are attached hereto and all of the documents are listed on the attached PTO-1449 Form. The Examiner is requested to initial the appropriate spaces on the attached Form and to return a copy of the completed Form to Applicants with the next official communication in the present application.

Applicants note that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully Submitted,  
Masayuki ORIHASHI et al.



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FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P25670Application No.  
10/502,048

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant  
Masayuki ORIHASHI et al.Filing Date  
February 27, 2003Group  
Not Yet Assigned**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		5 - 4 1 6 0 7	02/19/93	JAPAN			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	1	An article by C. UCHIYAMA entitled "Ryoshi Rikigaku no Kiso to Ryoshi Ango Ryoshi Tsushin Channel no Shiten" ("Basics of Quantum Mechanics and Quantum Cryptography"), published in Surikagaku (Mathematical Sciences), No. 402, December 1, 1996, pp. 53-61.
	2	An article by M. MUROYA et al. entitled "Digital Communication Series Digital Musen Tsushin" ("A Compensation Technique in Digital Radio Transmission") published in Sangyo Tosho Kabushiki Kaisha ("Digital Radio Communication"), 5 <sup>th</sup> Edition, March 10, 1992, pp. 103-127 and pp. 169-170.
	3	English Language Abstract of JP 5-41607.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.